

# **UCS 1617 – MINI PROJECT STUDENTS INFORMATION SYSTEM USE CASE DOCUMENT**

## **TEAM MEMBERS :**

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# USE CASE DOCUMENT

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## AIM:

Creation of an UML Use case model for a problem domain for student information management system.

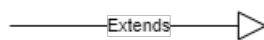
## NOTATIONS:



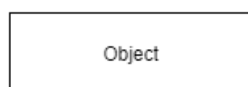
Actors: The users that interact with a system. An actor can be a person, an organization, or an outside system that interacts with your application or system. They must be external objects that produce or consume data.



Use cases: Horizontally shaped ovals that represent the different uses that a user might have.



Associations: A line between actors and use cases. In complex diagrams, it is important to know which actors are associated with which use cases.



An object is an individual [thing] with a state and relationships to other objects. The state of an object identifies the values for that object of properties of the classifier of the object.

## **IDENTIFICATION OF ACTORS:**

- Student
- Faculty
- Administrator

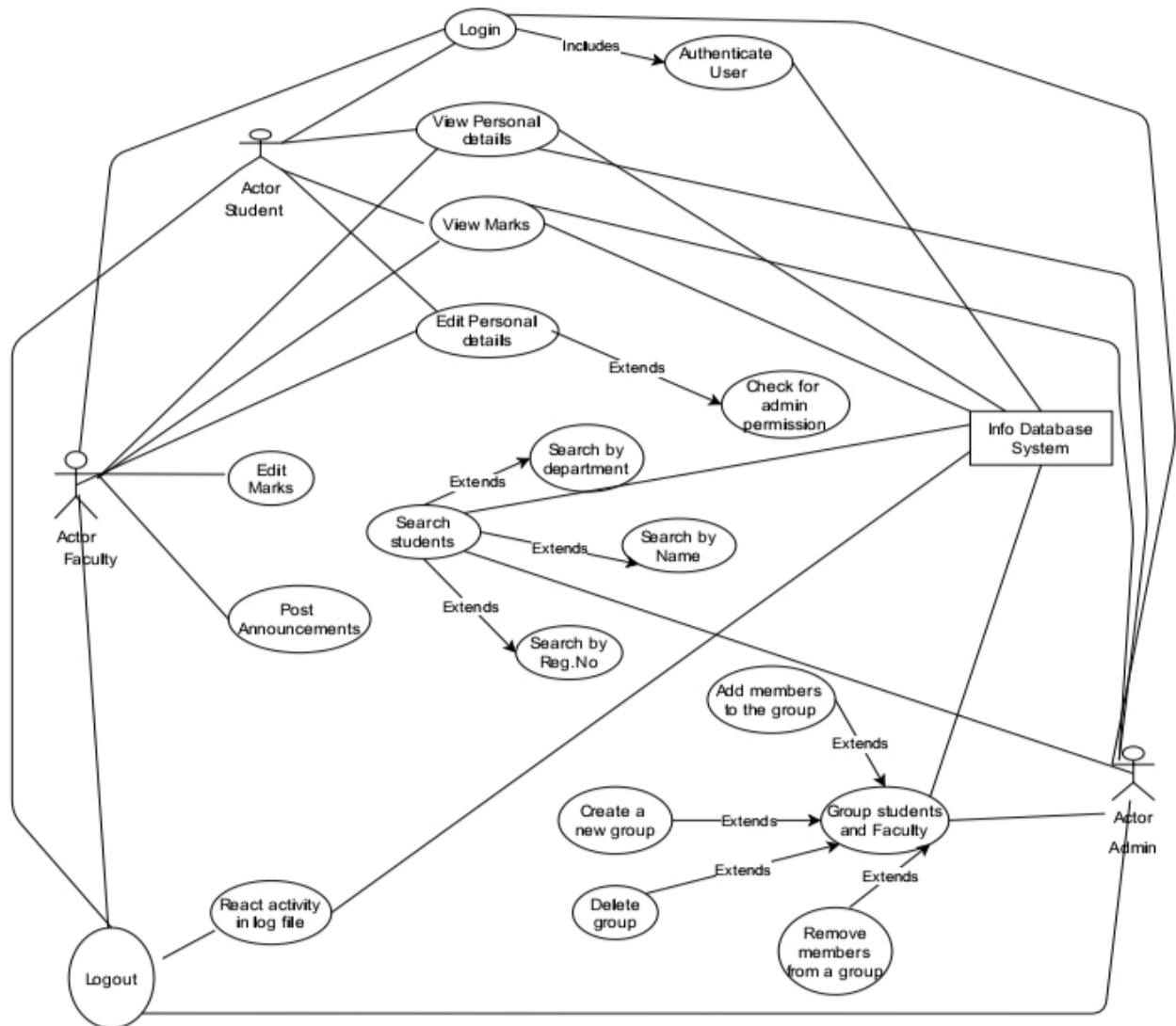
## **IDENTIFICATION OF OBJECTS:**

- Student Information Management System

## **USECASES:**

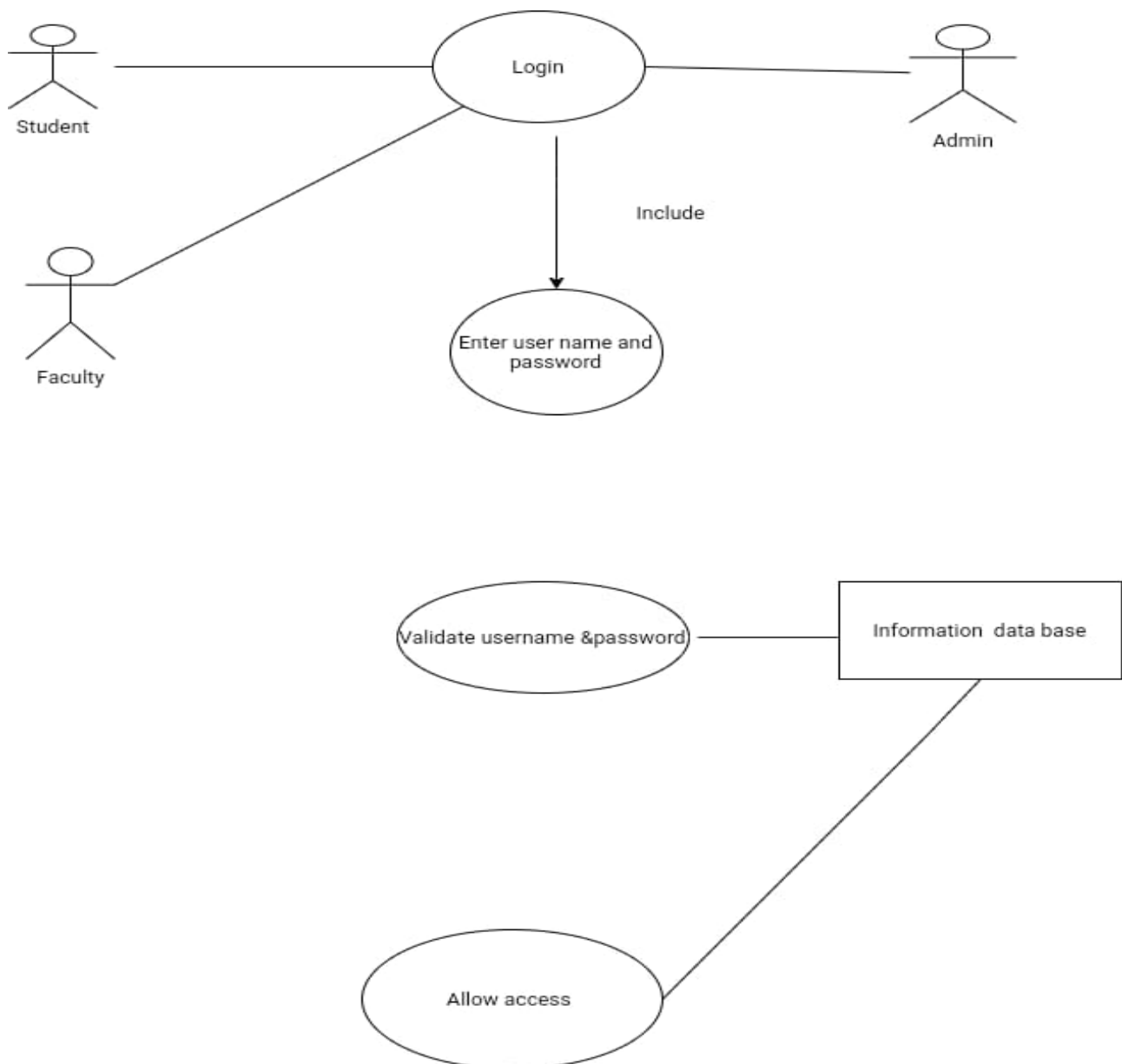
- Login
- Authenticate user
- View personal details
- View marks
- Edit personal details
- Check admin permission
- Edit marks
- Search Students
- Search by dept
- Search by name
- Search by regnum
- Group students&faculty
- Add member to group
- Create new group
- Delete member from group
- Delete group
- Log out
- Record activity in log file

# USECASE DIAGRAM

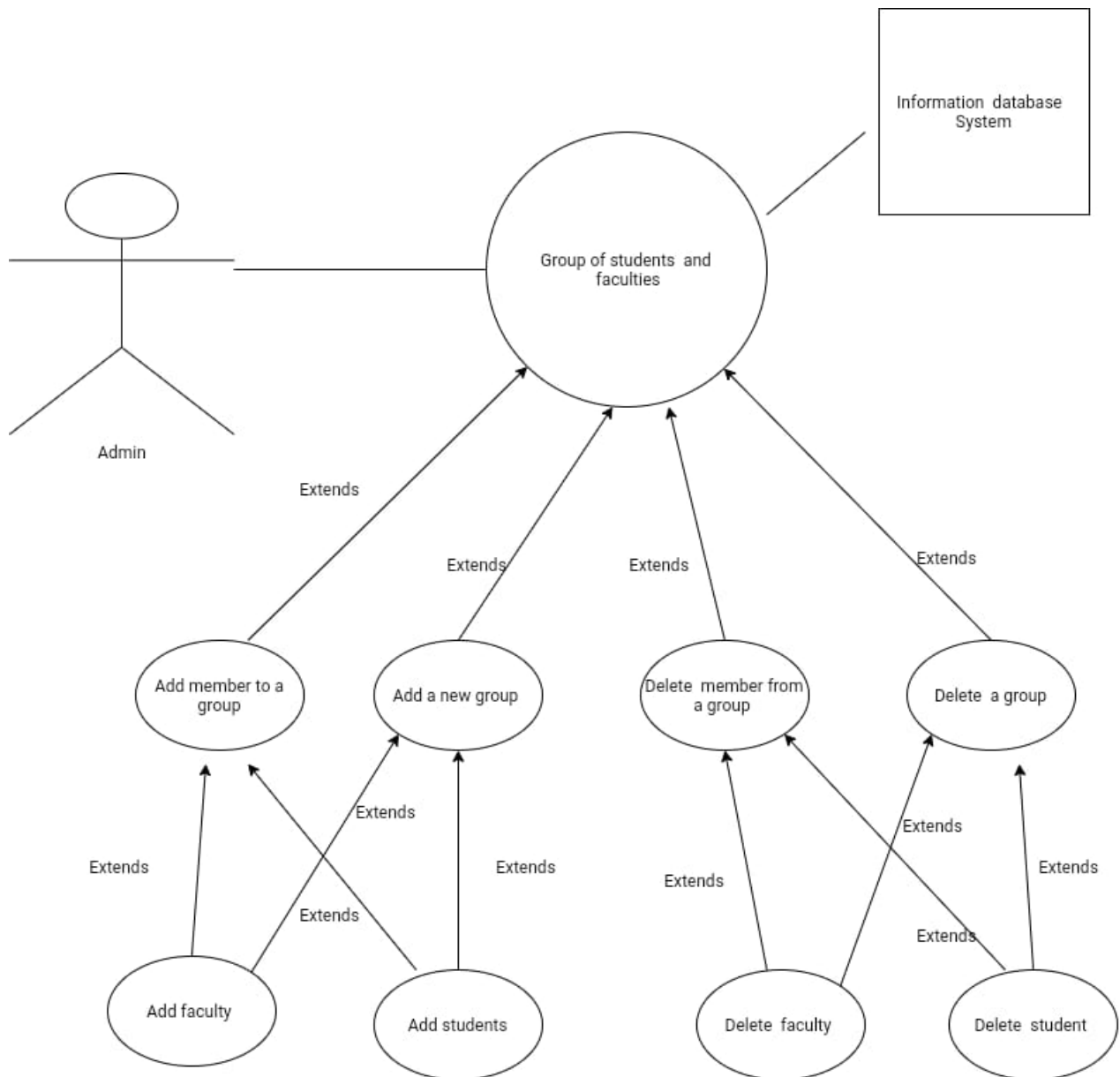


# SUBFUNCTIONS

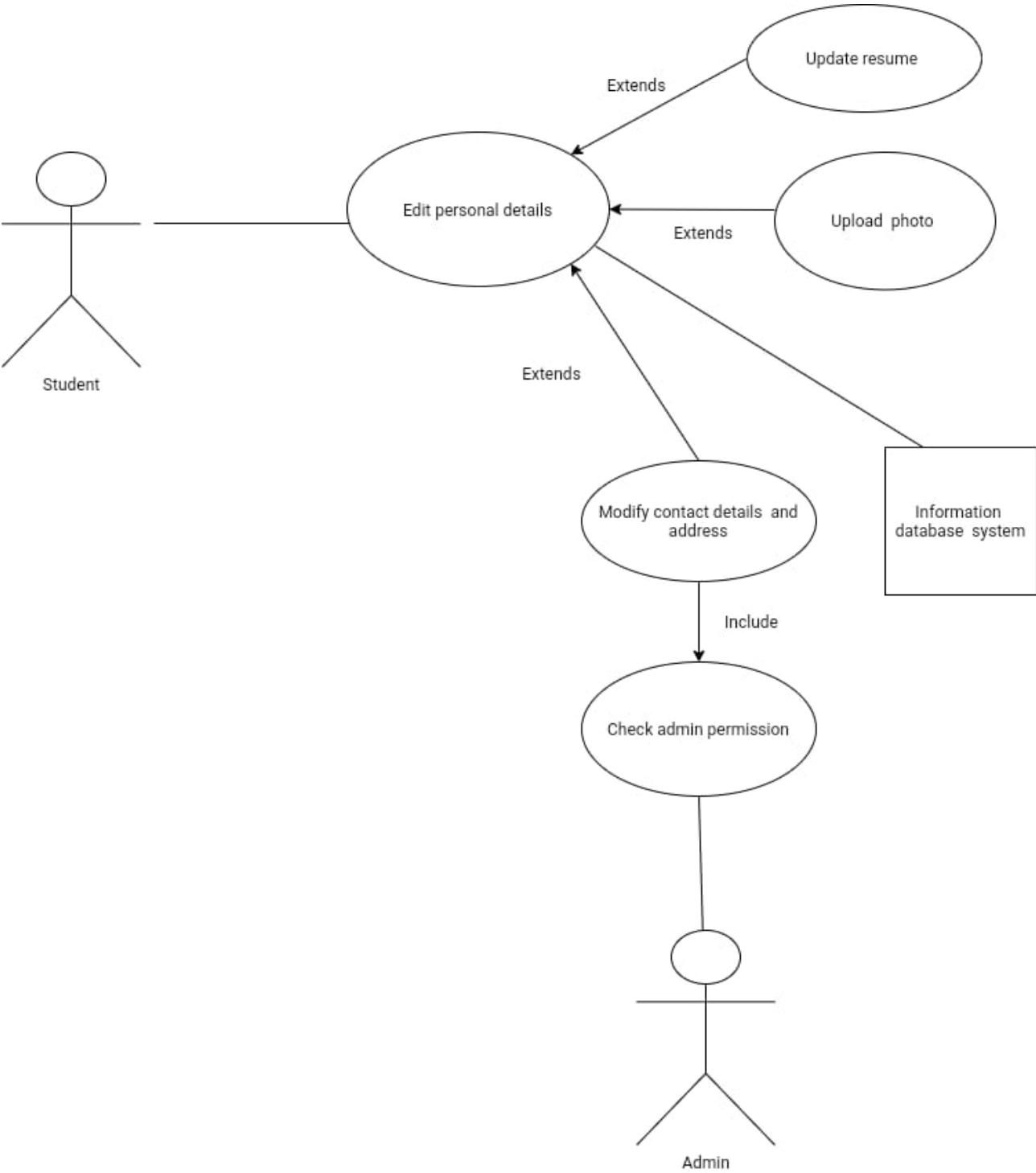
## 1. Login



## 2. Grouping Students and Faculties



### 3. Edit Personal Details



## **FULLY DRESSED USECASE**

### **Main Success Case Scenario:**

A student logs in to the SIS system. They enter the user ID and password. After validating the details the SIS displays the home page. The student can view their personal details and marks. To edit some personal details the student requests the admin consent. Then the student logs out. During the faculty login, they can view the student marks and details and can edit the student marks. Faculty can search for a particular student record and also can post announcement to the group. Admin can group the students and faculty into teams.

### **Alternative flows:**

At any time, the system fails:

- The user restarts the page, logs in and requests recovery of prior state.
- The system reconstructs the prior state
- The system detects anomalies preventing recovery: The system signals error to the user, records the error and enters a clean state.
- The user starts from home page again.



## **SUBFUNCTIONS:**

### **1. Login**

To login into the SIS, the user/faculty/ admin should provide their username and password. The system validates that and provides access.

### **2. Grouping Students and Faculty**

Admin can group students and faculties into teams- Add a member to a group either a student or a faculty; Delete a student/faculty from a group; Create a new group; Delete an existing group.

### **3. Edit Personal Details**

Students can upload/modify their profile picture; Update their resume.